INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-004205 Location: TOXL

A. Flow Sensor Calibration and Verification Check (Level 3,M,C,F)
1. ☒ Replaced o-rings if damaged ADJUST VERIFY
2. Flow Meter Serial Number: 40655 & 55260
3. Air Supplied to Intoxilyzer® 8000 at:
   a. ☒ 5 L/min ☒ 15 L/min ☒ 30 L/min
4. ☒ Flow Rate Calibration Printout Attached
   a. ☒ Correlation ≥ 0.99000
5. ☐ Flow Sensor Calibration Verification (Level 3,D,F)
   a. 10 L/min: 0. ___ L/S X 60 Sec/min = _____ L/min
   b. 20 L/min: 0. ___ L/S X 60 Sec/min = _____ L/min
   c. ☐ Flow Rates within ± 1 L/min of Expected Value

#5 SEE REMARKS

B. Gas Tank Sensor Check (Level 3,D,G)
1. Display: 451 psi Regulator: 475 psi
2. ☒ Display and Regulator within 50 psi
3. ☒ Completed tare of tank sensor if needed (Level 3,M,C,G)

C. Optical Bench Calibration and Verification Check (Level 3,M,C,O)
1. ☒ Autocalibration Printout Attached
   a. ☒ Max Power Res Value ≥ 10
   b. ☒ Auto Range Res Value ≥ 4
2. Simulator Solutions for Optical Bench Calibration Adjustment
   a. ☒ Set # Solutions to Run at 5

Soln.	g/210 L	Lot No.	Exp. Date	Simulator SN
1	0.000 (ACTUAL)	NA – MilliQ H_2O	NA – MilliQ H_2O	MP3066
2	0.040 (0.040)	2018081	8·22·20	MP3067
3	0.080 (0.082)	201707E	7·29·19 (5 CEE)	MP3068
4	0.150 (0.151)	201811E	11·26·20	MP3069
5	0.300 (0.301)	201803H	3·22·20	MP3070

3. 0.100 AC Calibration Gas for H2O Adjustment
   a. Lot No. 1351B100A3 Cyl No. 6 Exp. Date: 8·5·20
4. Atmospheric Pressure
   a. 931 mbar Displayed by Intoxilyzer® 8000
   b. 945 mbar Adjusted to using barometer
   c. 944 mbar on Auto Calibration Report printout
5. ☒ Screen displayed "Calibration Success"

6. X Calibration Adjustment Printout Attached
   a. X Solution 1 Avg % Abs ≤ 0.2500
   b. X Solution 2-5 REL STD DEV ≤ 3.000
   c. X Residual (g/210 L) Values for Solutions 1-5 ≤ 0.0020 for 3 μm and 9 μm channels
   d. X Dry Gas H2O Adjustment Sum for 3 μm and 9 μm channels within ± 10

	Average		H_2O Adjust		
3 μm	4443	+	318	=	4761
9 μm	4312	+	449	=	4761

7. X Optical Bench Calibration Verification (Level 1, S and C)
   a. Wet Calibration Check
      i. Low AC Known Value ≤ 0.03 AC: 0.015 AC
      Sim. SN: DR5113 Lot No.: 201805C Exp. Date: 5.30.20
      ii. High AC Known Value ≥ 0.25 AC: 0.300 AC
      Sim. SN: DR7089 Lot No.: 17350 Exp. Date: 10.11.19
   b. Dry Calibration Check: Known Value 0.08 AC
      Lot No. 349170804J Cyl No. 7 Exp. Date: 2/5/20

Test 1	0.079 AC	Test 4	0.080 AC	Test 7	0.079 AC
Test 2	0.079 AC	Test 5	0.080 AC	Test 8	0.079 AC
Test 3	0.079 AC	Test 6	0.079 AC	Test 9	0.079 AC

Average 0.079 AC

   c. X Wet Calibration Check and Dry Calibration Check AC results are within ± 0.005 or ± 5% (whichever is greater) of stated value.

D. Remarks/Maintenance: FLOW MONITOR NO LONGER PROVIDES FEED BACK. INSTRUMENT WILL BE USED IN CLASSROOM ONLY UNTIL FLOW MONITOR IS FIXED. ADJUSTED DUE TO 0.080AC STANDARD RETURNING 0.075 AC RESULTS. STILL WITHIN ±0.005 TOLERANCE

☐ Instrument is acceptable to be used in the field.

☒ CLASSROOM ONLY.

Breath Analyst Signature — Date: 6/14/2019

Reviewed by: NA — Date: NA

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004205
Location = TOXL 8164.14.00 09/16
06/14/2019 14:23
Flow Rate Calibration********
1: Rate (Liters/min) = 5
SQRT(Diff)) = 0.000
2: Rate (Liters/min) = 15
SQRT(Diff)) = 5.566
3: Rate (Liters/min) = 30
SQRT(Diff)) = 19.441
Dependent Data Scale Factor = 100000 L/min
Independent Data Scale Factor = 256
Rounded Slope = 487
Rounded Intercept = 627463
Correlation = 0.99195

FLOW SENSOR CALIBRATION

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-004205
06/14/2019 14:36:56

Auto Calibration
Max Power Res Value = 45
Auto Range Res Value = 22

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-004205
06/14/2019 14:36:56

Auto Calibration

	<<<<< 3um >>>>>		<<<<< 9um >>>>>	
Solution = 0.000 g/210L or 0.0000 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	0.0720	(0.0070)	0.1580	(0.0080)
Sample #2	0.0750	(0.0760)	0.1750	(0.0160)
Sample #3	0.0630	(0.1190)	0.1830	(0.0300)
Sample #4	0.0640	(0.1500)	0.1490	(0.0640)
Avg % Abs	0.0673	(0.1150)	0.1690	(0.0367)
STD DEV	0.0067	(0.0372)	0.0178	(0.0247)
REL STD DEV	9.889	(32.315)	10.519	(67.322)
Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	0.7890	(0.0000)	1.5610	(0.0060)
Sample #2	0.7880	(0.0240)	1.6050	(0.0020)
Sample #3	0.7490	(0.0600)	1.5790	(0.0120)
Sample #4	0.7750	(0.0530)	1.5990	(0.0000)
Avg % Abs	0.7707	(0.0457)	1.5943	(0.0047)
STD DEV	0.0199	(0.0191)	0.0136	(0.0064)
REL STD DEV	2.577	(41.797)	0.854	(137.766)
Solution = 0.082 g/210L or 0.3905 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	1.4420	(-0.0220)	2.9790	(0.0000)
Sample #2	1.4830	(-0.0310)	2.9930	(0.0310)
Sample #3	1.4590	(-0.0100)	2.9910	(0.0250)
Sample #4	1.4680	(-0.0080)	3.0030	(0.0290)
Avg % Abs	1.4700	(-0.0163)	2.9957	(0.0283)
STD DEV	0.0121	(0.0127)	0.0064	(0.0031)
REL STD DEV	0.825	(78.006)	0.215	(10.783)
Solution = 0.151 g/210L or 0.7190 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	2.7030	(-0.0150)	5.3420	(-0.0040)
Sample #2	2.6700	(0.0200)	5.3550	(0.0150)
Sample #3	2.7080	(0.0120)	5.3520	(0.0070)
Sample #4	2.6650	(0.0310)	5.3590	(0.0130)
Avg % Abs	2.6810	(0.0210)	5.3553	(0.0117)
STD DEV	0.0235	(0.0095)	0.0035	(0.0042)
REL STD DEV	0.877	(45.426)	0.066	(35.686)
Solution = 0.301 g/210L or 1.4333 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	5.1620	(0.0000)	10.0970	(0.0010)
Sample #2	5.2100	(0.0000)	10.1530	(0.0370)
Sample #3	5.1800	(0.0220)	10.1050	(0.0420)
Sample #4	5.1860	(0.0080)	10.0850	(0.0310)
Avg % Abs	5.1920	(0.0100)	10.1143	(0.0367)
STD DEV	0.0159	(0.0111)	0.0349	(0.0055)
REL STD DEV	0.306	(111.355)	0.346	(15.021)

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-004205
06/14/2019 14:36:56

Auto Calibration

	<<<<< 3um >>>>>	<<<<< 9um >>>>>
Zero Order Coef	-180.36	-225.37
First Order Coef	2724.22	1333.12
Second Order Coef	13.54	10.47

Act (g/210L)	Fit (g/210L)	Residual (g/210L)	Act (g/210L)	Fit (g/210L)	Residual (g/210L)
0.000	0.000	-0.0001	0.000	0.000	-0.0000
0.040	0.040	-0.0005	0.040	0.040	-0.0005
0.082	0.081	0.0011	0.082	0.081	0.0009
0.151	0.152	-0.0006	0.151	0.151	-0.0005
0.301	0.301	0.0001	0.301	0.301	0.0001

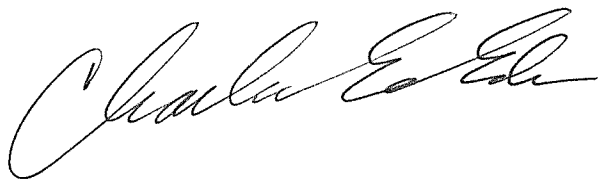
	<<<<< 3um >>>>>	<<<<< 9um >>>>>

Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1

Sample		
Sample #1	4444.00	4317.00
Sample #2	4455.00	4321.00
Sample #3	4452.00	4326.00
Sample #4	4423.00	4291.00
Avg	4443.3335	4312.6665
STD DEV	17.6730	18.9297
REL STD DEV	0.398	0.439
H2O adjust (mg/l*10k)	318	449

Atmospheric Pressure = 944

**********CALIBRATION SUCCESSFUL**********



Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer — Alcohol Analyzer
North Dakota Model 8000 — SN 80-004205
Location = TOXL — 8164.14.00 09/16
06/14/2019 — 15:22

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	15:23
02 Std. Sol.	0.014	15:23
03 Room Air	0.000	15:24
04 Std. Sol.	0.014	15:25
05 Room Air	0.000	15:25
06 Std. Sol.	0.014	15:26
07 Room Air	0.000	15:26

08 Sim Temp = 34.0°C

Simul Ser No = DR5113
Std Sol No = 201805C
County = 08 — Oper No. = 666666

Operator Signature
CHARLES EDER

Remarks: Low AC
0.015 AC

Form 106-I8000

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer — Alcohol Analyzer
North Dakota Model 8000 — SN 80-004205
Location = TOXL — 8164.14.00 09/16
06/14/2019 — 15:27

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	15:28
02 Std. Sol.	0.296	15:29
03 Room Air	0.000	15:29
04 Std. Sol.	0.298	15:30
05 Room Air	0.000	15:30
06 Std. Sol.	0.298	15:31
07 Room Air	0.000	15:32

08 Sim Temp = 34.0°C

Simul Ser No = DR7089
Std Sol No = 17350
County = 08 — Oper No. = 666666

Operator Signature
CHARLES EDER

Remarks: HIGH AC
0.300 AC

Form 106-I8000

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer — Alcohol Analyzer
North Dakota Model 8000 — SN 80-004205
Location = TOXL — 8164.14.00 09/16
06/14/2019 — 15:32

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	15:33
02 Std. Gas	0.079	15:33
03 Room Air	0.000	15:34
04 Std. Gas	0.079	15:34
05 Room Air	0.000	15:35
06 Std. Gas	0.079	15:35
07 Room Air	0.000	15:35

Lot No = 34917080A3
Cyl No = 7
Exp Date = 02/05/2020
County = 08 — Oper No. = 666666

Operator Signature
CHARLES EDER

Remarks: CALIBRATION CHECK
0.080 AC

Form 106-I8000

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer — Alcohol Analyzer
North Dakota Model 8000 — SN 80-004205
Location = TOXL — 8164.14.00 09/16
06/14/2019 — 15:36

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	15:36
02 Std. Gas	0.080	15:37
03 Room Air	0.000	15:37
04 Std. Gas	0.080	15:37
05 Room Air	0.000	15:38
06 Std. Gas	0.079	15:38
07 Room Air	0.000	15:39

Lot No = 34917080A3
Cyl No = 7
Exp Date = 02/05/2020
County = 08 — Oper No. = 666666

Operator Signature
CHARLES EDER

Remarks: CALIBRATION CHECK
0.080 AC

Form 106-I8000

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer — Alcohol Analyzer
North Dakota Model 8000 — SN 80-004205
Location = TOXL — 8164.14.00 09/16
06/14/2019 — 15:40

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	15:40
02 Std. Gas	0.079	15:41
03 Room Air	0.000	15:41
04 Std. Gas	0.079	15:42
05 Room Air	0.000	15:42
06 Std. Gas	0.079	15:42
07 Room Air	0.000	15:43

Lot No = 34917080A3
Cyl No = 7
Exp Date = 02/05/2020
County = 08 — Oper No. = 666666

Operator Signature
CHARLES EDER

Remarks: CALIBRATION CHECK
0.080AC

Form 106-I8000